

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat $39^{\circ}15'33''$, long $111^{\circ}34'45''$, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 18 S., R. 3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft downstream from a side road bridge, 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at Manti-LaSal National Forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi².

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WDR UT-81-1: 1979, 1980(M), WDR UT-01-1: 2000, daily values.

GAGE.--Water-stage recorder. Crest-stage gage since August 22, 2000. Elevation of gage is 6,500 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records do not include flow diverted around station in an 12-inch pipeline by city of Manti for culinary purposes and for generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft³/s, Jun 28, 1995, gage height, 5.49 ft; minimum, 0.9 ft³/s, Nov 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 245 ft³/s, May 18, gage height, 4.71 ft; minimum daily discharge, 3.4 ft³/s, Jan 31, Feb 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	3.9	e4.2	e4.2	e3.4	e3.9	8.0	22	62	15	7.3	4.5
2	4.4	3.7	e4.3	e4.1	e3.5	e3.8	8.8	20	61	15	7.1	4.4
3	4.3	3.7	e4.4	e4.1	e3.5	e4.0	9.2	22	61	15	6.8	4.5
4	4.3	3.7	e4.4	e4.1	e3.5	e4.2	10	27	55	14	6.6	4.4
5	4.3	3.7	e4.2	e4.2	e3.5	e4.4	12	35	52	14	6.3	4.4
6	4.3	3.7	e4.3	e4.2	e3.6	e4.6	12	43	50	13	6.1	5.3
7	4.3	4.0	e4.4	e4.3	e3.7	e4.6	10	49	48	13	6.1	5.2
8	4.3	3.7	e4.3	e4.4	e3.8	e4.5	10	e48	44	12	5.9	5.5
9	5.2	3.5	e4.3	e4.5	e3.7	e4.4	10	e43	43	12	5.8	4.9
10	4.5	3.9	e4.3	e4.4	e3.6	e4.6	13	44	40	12	5.7	4.6
11	4.6	3.9	e4.2	e4.3	e3.6	e4.6	13	44	38	12	5.6	5.6
12	4.8	3.7	e4.0	e4.3	e3.6	e4.6	13	42	36	11	5.5	5.5
13	4.8	3.7	e4.0	e4.3	e3.5	e4.4	14	50	34	11	5.4	5.0
14	4.6	e3.7	e4.1	e4.3	e3.5	e4.4	15	63	33	11	5.3	4.6
15	4.6	e3.8	e4.1	e4.4	e3.5	e4.4	15	74	32	10	5.1	4.4
16	4.4	e4.0	e4.0	e4.0	e3.6	e4.6	13	79	30	10	5.1	5.4
17	4.4	e4.1	e4.1	e3.8	e3.7	e4.6	12	90	29	10	5.0	5.7
18	4.4	e4.0	e4.1	e3.8	e3.8	e4.8	11	102	27	10	5.0	5.4
19	4.2	e4.0	e4.2	e3.8	e3.7	e5.0	10	105	26	9.9	4.9	5.0
20	4.1	e4.1	e4.2	e4.0	e3.9	e5.2	9.5	107	26	9.8	4.8	4.7
21	4.1	e4.2	e4.3	e4.1	e3.9	e5.0	9.4	93	24	9.4	4.8	4.5
22	4.1	e4.4	e4.2	e4.1	e3.9	e5.2	10	74	23	9.3	4.7	4.4
23	4.1	e4.4	e4.1	e3.6	e4.0	e5.2	11	66	22	9.1	4.7	4.4
24	3.8	e4.3	e4.0	e3.6	e3.9	e5.0	13	63	21	8.8	4.7	4.4
25	3.8	e4.3	e4.0	e3.7	e3.9	e5.0	15	61	20	9.3	4.5	4.3
26	3.8	e4.2	e4.0	e3.8	e3.8	e5.5	18	62	19	9.7	4.4	4.3
27	4.0	e4.2	e4.1	e4.0	e3.8	e5.5	17	63	19	8.8	4.5	4.3
28	4.0	e4.1	e4.1	e4.0	e3.9	5.8	14	65	18	8.1	4.6	4.2
29	3.7	e4.3	e4.2	e3.8	---	6.1	16	64	17	7.9	4.7	5.2
30	3.7	e4.2	e4.2	e3.5	---	6.1	21	65	16	7.7	4.6	4.8
31	4.7	---	e4.2	e3.4	---	7.0	---	64	---	7.5	4.6	---
TOTAL	133.0	119.1	129.5	125.1	103.3	151.0	372.9	1849	1026	335.3	166.2	143.8
MEAN	4.290	3.970	4.177	4.035	3.689	4.871	12.43	59.65	34.20	10.82	5.361	4.793
MAX	5.2	4.4	4.4	4.5	4.0	7.0	21	107	62	15	7.3	5.7
MIN	3.7	3.5	4.0	3.4	3.4	3.8	8.0	20	16	7.5	4.4	4.2
AC-FT	264	236	257	248	205	300	740	3670	2040	665	330	285

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965-74, 1979-2002, BY WATER YEAR (WY)

MEAN	8.253	6.640	5.266	4.810	4.642	6.137	18.25	98.71	131.3	42.45	16.21	10.45
MAX	18.6	12.5	9.85	8.79	8.46	12.3	87.4	232	317	183	42.3	26.0
(WY)	1984	1985	1984	1984	1984	1986	1985	1984	1983	1995	1983	1995
MIN	4.14	3.77	3.35	3.05	3.13	3.22	5.46	47.1	32.2	10.9	5.35	3.65
(WY)	2001	1993	1979	1981	1967	1991	1967	1990	1966	2002	2002	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1965-74, 1979-2002

ANNUAL TOTAL	6444.1	4654.2		
ANNUAL MEAN	17.66	12.75	29.48	
HIGHEST ANNUAL MEAN			61.0	1984
LOWEST ANNUAL MEAN			12.7	2002
HIGHEST DAILY MEAN	193	May 17	547	Jun 28 1995
LOWEST DAILY MEAN	2.5	Feb 23	1.8	Dec 13 2000
ANNUAL SEVEN-DAY MINIMUM	2.8	Feb 27	2.3	Dec 9 2000
ANNUAL RUNOFF (AC-FT)	12780	9230	21360	
10 PERCENT EXCEEDS	48	39	79	
50 PERCENT EXCEEDS	4.8	4.6	8.3	
90 PERCENT EXCEEDS	3.1	3.8	4.1	

e Estimated